

Disclaimer:

This English translation is produced by machine translation and may contain errors. The JPO, the INPIT, and those who drafted this document in the original language are not responsible for the result of the translation.

Notes:

1. Untranslatable words are replaced with asterisks (***).
2. Texts in the figures are not translated and shown as it is.

Translated: 01:25:15 JST 04/18/2009

Dictionary: Last updated 04/14/2009 / Priority: 1. Electronic engineering / 2. Mechanical engineering / 3. Technical term

FULL CONTENTS

[Claim(s)]

[Claim 1]A button for clothes with ***** which is a button which has ***** in a rear face, and buried and formed an IC chip and an antenna containing discernment information in a button body part.

[Claim 2]A button for clothes with ***** which buried where it is a button for clothes with ***** concerning Claim 1, and an IC chip containing discernment information was located in the central part of the top part of a button body, and an antenna presented ring shape to a peripheral side of the top part and is located in it, and was provided.

[Claim 3]A button for clothes with ***** which was a button for clothes with ***** concerning Claim 2, an IC chip in a crestal plane of a button body and its antenna buried, provided, and provided ornaments, such as a picture, a character, and a color, in the external surface of a part.

[Detailed Description of the Invention]**[0001]**

[The technical field to which an invention belongs] This invention relates to the button for clothes with ***** which has ***** in the rear-face side and has an antenna of IC containing discernment information, and the IC concerned, etc. in the top part.

[0002]

[Description of the Prior Art]Conventionally, the IC chip into which discernment information was put, its antenna, and the button for clothes provided with the ornament with ***** are not found.

[0003]

[Problem to be solved by the invention]An object of this invention is to provide the new button for clothes with ***** which adopts it as distribution management, such as merchandise management in the clothes cleaning industry or the apparel business, and customer relations management, the prevention from loss of clothes, theft prevention, forgery prevention, etc., and has the feature in very

suitable and convenient composition.

[0004]

[Means for solving problem][to achieve the above objects the button for clothes with ***** concerning this invention] Are a button which has ***** in a rear face, and in a button body part, [the IC chip, its antenna, and ornament containing discernment information] The IC chip containing discernment information is located in the central part of the top part of a button body, and an antenna buries by the state where presented ring shape and it was located to the peripheral side of the top part, and is formed in it, the IC chip in the crestal plane of a button body and its antenna bury, an ornament provides, and it is provided in the external surface of a part, and is a thing.

[0005]

[Working example][the 1st work example shown in drawing 1 and drawing 2] [by the rigid plastic provided with electromagnetism permeability] Constitute the button body 2 which formed U type ***** 1 in the rear face at one, form the protruding edge 3 in the outer circumference of the crestal plane of this button body 2, form the hollow 4, and it receives in this hollow 4, [noncontact IC chip 6 containing discernment information of an electromagnetic induction type which uses as a power supply a part of energy which a reader writer (not shown) releases, and functions via the antenna coil 5] IC chip 6 is located in the center section of the low side of the hollow 4, and the antenna coil 5 inserts in as a state which presented ring shape and was located in the peripheral side of the hollow 4, By forming the waterproofing enveloping layer 7 which poured the epoxy resin into the hollow 4 concerned in the appropriate back, solidified, and was provided with electromagnetism permeability, IC chip 6 and its antenna coil 5 are embedded impossible [attachment and detachment] in the top part of the button body 2, are provided in it, and wash is made possible.

[0006]The 2nd work example shown in drawing 3 and drawing 4 is acquired like the 1st work example of the above, and also expresses the character ornament 8 in the center of a crestal plane of the waterproofing enveloping layer 7 as resin of different colors.

[0007]After supplying to the hollow 4 of the button body 2 in the state where stuck beforehand IC chip 6 and the antenna coil 5 on one side of the seal 9 of a convenient size, fixed to it, and the element (device) turned into putting the 3rd work example shown in drawing 5 into the hollow 4, The waterproofing enveloping layer 7 is formed by pouring an epoxy resin into the hollow 4, and solidifying.

[0008]EEPROM which can perform rewriting of information according [this invention] to a user, a mask ROM which cannot perform rewriting of information by a user, A user can use an IC chip by nonvolatile FROM using PROM or a ferroelectric which can do programs, such as writing of information, etc., In order to improve workability, as shown in drawing 5, fix to the seal 9 beforehand and an element (device) IC chip 6 and the antenna coil 5 when it turns, It is possible to provide an adhesive line (not shown) in a rear face of the element concerned beforehand, and to tacking carry out by the layer concerned, and a position shift according to ***** when casting of resin is made in

the state of ** as it is temporary etc. can be prevented.

[0009]Incidentally, since an IC chip consists in a center, this invention does not turn to the button which it has focusing on two or more holes with ** penetrated, for example to a rear surface like the button of a shirt, and operation is impossible.

[0010]

[Function]When this is sewn on clothes using *****, the button for clothes with ***** concerning this invention performs transmitting and receiving processing by non-contact between the IC chip and reader writer (not shown) in the button for clothes with *****, and presents usages, such as carrying out computer management of this with a personal computer etc., with it.

[0011]

[Effect of the Invention]Since the buttons for clothes with ***** concerning this invention are the above composition, According to this, the above-mentioned usage etc. become possible, and distribution management, such as merchandise management in the clothes cleaning industry or the apparel business and customer relations management, the prevention from loss of clothes, theft prevention, forgery prevention, other ON leaving managements (restriction), etc. can be made easily without a discernment mistake, and certainly.

[the button for clothes with ***** concerning Claim 2] The IC chip containing discernment information is located in the central part of the top part of a button body, and an antenna buries ring shape by the state where it was presented and located to the peripheral side of the top part, provides it in it (refer to the 2nd work example), and, [that of *****] carrying out the number of increase of the number of turns of the antenna 5 arranged on the surroundings of IC chip 6 which consists in the center -- a long antenna (refer to drawing 5) -- OK, [the button for clothes with ***** which is convenient although carried out, and is applied to Claim 3] Since it is what the IC chip in the top part of a button body and the antenna buried, provided, and provided ornaments, such as a picture, a character, and a color, in the external surface of the part (refer to the 3rd work example), For example, the effect which was excellent in enabling offer of the high product of the beauty which cannot be realized with the button which it has focusing on two or more holes with ** penetrated to a rear surface like the button of a shirt etc. is generated.

[Brief Description of the Drawings]

[Drawing 1]It is an enlarged plan view showing the 1st work example of this invention.

[Drawing 2]It is a sectional view which meets the drawing 1 A-A line.

[Drawing 3]It is an enlarged plan view showing the 2nd work example of this invention.

[Drawing 4]It is a sectional view which meets the drawing 3 B-B line.

[Drawing 5] It is an enlarged plan view showing the 3rd work example of this invention.

[Explanations of letters or numerals]

1 *****

2 Button body

3 Protruding edge

4 Hollow

5 Antenna coil

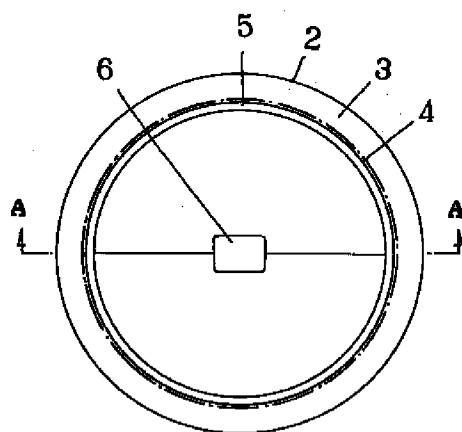
6 IC chip

7 Waterproofing enveloping layer

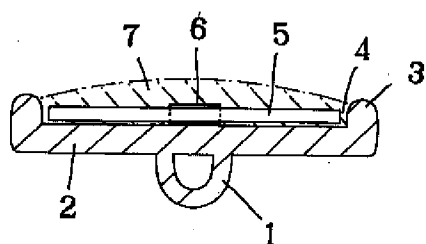
8 Ornament character

9 Seal

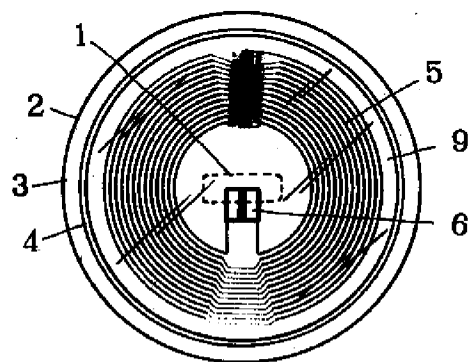
[Drawing 1]



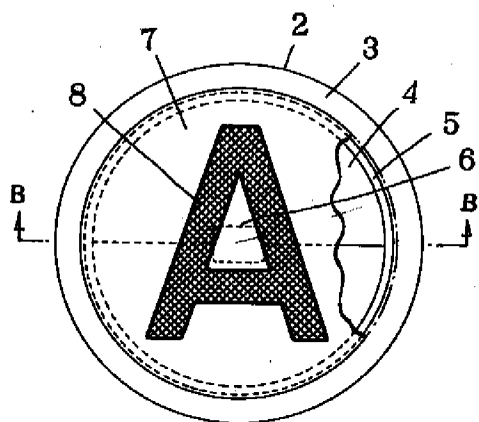
[Drawing 2]



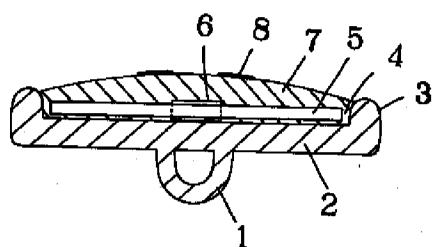
[Drawing 5]



[Drawing 3]



[Drawing 4]



[Translation done.]